KHACHATUROV, T.S., red.; DAN'SHINA, V.N.[translator]; ZOTOV, B.D.
[translator]; ISUPOV, V.T.[translator]; MENIKER, V.D.[translator];
TEREKHOV, V.F.[translator]; SHAGALOV, G.L.[translator]; KORMIOV,
Yu.F., nauchnyy red.; ZAYTSEV, N.F., red.; KHOMYAKOV, A.D., tekhn.

[Problems in the economic efficiency of capital investments]Voprosy ekonomicheekoi effektivnosti kapitalovlozhenii; sbornik statei.
Pod red. i so vstup. stat'ei T.S.Khachaturova. Moskva, Izd-vo
inostr. lit-ry, 1962. 276 p. (MIRA 15:12)

1. Chlen-korrespondent Akademii nauk SSSR (for Khachaturov).

(Capital investments)

KATS, V.I., doktor ekon. nauk; KIRICHENKO, V.N., kand. ekon. nauk; IVANOV, Ye.A.; SAID-GALIYEV, K.G.; LUK'YANOV, E.B.; MUSATOVA, V.A.; PLYSHEVSKIY, B.P., kand. ekon. nauk; STOMAKHIN, V.I.; KARPUKHIN, D.N., kand. ekon. nauk; KIRICHENKO, N.Ya.; ZHIDKOVA, M.V., kand. ekon. nauk; ANCHISHKIN, A.I.; KLINSKIY, A.I., kand. ekon. nauk; SOLOV'YEV, N.S.; KLOTSVOG, F.N.; VSYAKIKH, E.P.; LAGDTIN, N.S., kand. ekon. nauk; LEMESHEV, M.Ya., kand. sel'khoz.nauk; KORMNOV, Yu.F., kand. ekon. nauk; SAVIN, V.A.; TEREKHOV, V.F.; KUDROV, V.M., kand. ekon. nauk; AL'TER, L.B., doktor ekon. nauk, red.; KRYLOV, P.N., kand. ekon. nauk; LEPINKOVA, Ye., red.; KOKOSHKINA, I., mladshiy red.; ULANOVA, L., tekhn. red.

[Growth of the social product and the proportions of the national economy of the U.S.S.R.]Rost obshchestvennogo proizvodstva i proportsii narodnogo khoziaistva SSSR. Moskva,
1962. 453 p. (MIRA 16:2)

(Russia---Economic policy)

HUNGARY

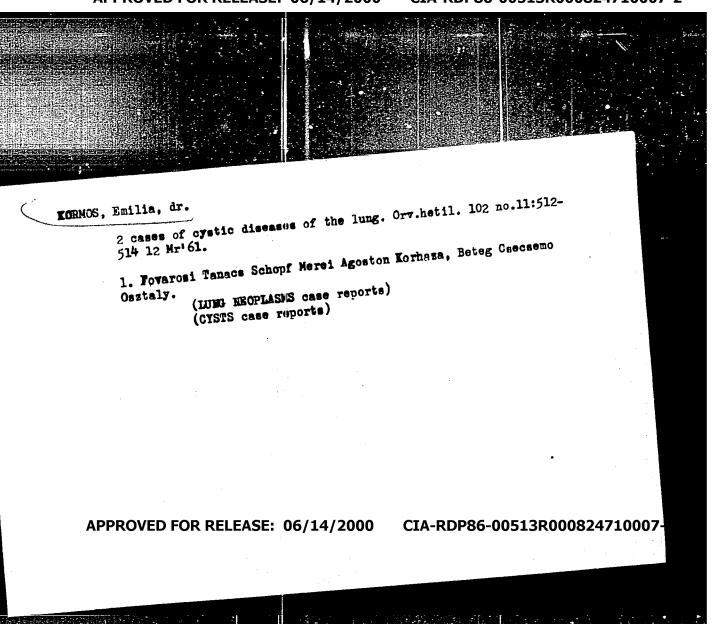
KORMOCZY, Gyorgy, Dr. LEHOCZKI, Zoltan, Dr. The Chinoin Pharmaceutical and Chemiar Proved For Reflection of Land Science (chief: Szinthikus), Peter, Dr) and First Veterinary Hospital of the City Council of Eudapest (chief: LEHOCZKI, Zoltan, Dr) (A Chinoin Gyogyszer and Vegyeszeti Termekek Gyara Orvostudomanyi Osztaly es a Budapest Fovarosi Tanacs 1. sz. Allatkorhaza).

"The Use of a New Spasmolytic Preparation in Veterina" Medicine."

Budapest, Magyar Allatorvosok Lapja, Vol 18, No 7 , July 1963, pp 279-281.

Abstract: [Authors' English summary modified] Comparative studies have been carried out by the authors using Ridol inj. (phenothiazide + methylhomatropine + codeing+ novamidazophenum), a combination with spasmo-analgetic effect and No-Spa inj. (tetraethoxy-benzol-tetradihydro-isoquinolimiumchloride), a new spasmolytic compound. Ridol is unsuitable for the intramuscular administration to large animals but i.v. or i.m. administration of No-Spa in doses of 4 cg/50 kg body weight was effective in the treatment of diseases of the digestive tract. Intestinal spasm was alleviated without affecting the peristalsis. Its effectivness was enhanced by combined administration with Algopyrin (novamidazophenum). 14 Hungarian, 5 Western references.

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KORMOS F

Different methods for economizing on leather accessories used in the textile industry. p. 406. INDUSTRIA TEXTILA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Rominia si Ministerului Industriei Usoare) Bucuresti. Vol. 6, no. 11, Nov. 1955.

So. East European Accessions List Vol. 5, No. 9 September, 1956

KORMOS, F.

Device for the planning and adjustment of shuttles according to a pattern. p. 133.

INDUSTRIA TEXTILA

Vol. 7, no. 3, Mar. 1956

Rumania

Source: EAST EURO: EAN LISTS Vol. 5, no. 10 Oct. 1956

KORMOS, F.

Improvements in the technological process in the weaving section.

p. 318 (Industria Textila) Vol. 8, Nol 7, July 1957, Bucuresti, Rumania

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC; VOL. 7, NO. 1, JAN. 1958

KORMOS, Istvan

AND THE PROPERTY OF THE PROPER

How should we promote the work of basic organizations? Munka 13 no.12:10-11 D'63.

 Szakszervezetok Ors::gos Tanacsa szervezeti osztalyanak vezetohelyettese.

OKMOS, FOZEF-HUNGARY/Cultivated Plants. Potatoes. Vegetables. Melons

M-5

entries.

Abs Jour: Ref Zhur - Biol., No 1, 1958, No 1607

CIA-RDP86-00513R000824710007-

Author

: Kormus Jozef, Kormos Jozsefae Inst

: Vegetable Scientific-Research Institute at the Tigan In-

stitute of Biology.

Title : Determined Peppers

Orig Pub: Novemytermeles, 1956, 5, No 1, 1-10

Abstract : Experiments have been conducted at the Vegetable Scientific Research Institute and in the Tigan Institute of Riology. By crossing in F2 the varient of fasciculatum with varieties related to other variants, a form with shortened offshoots of the main shoot which rapidly terminated their growth and lacked Side shoots was obtained. This new determinated type of pappers, even after cutting off the top of the main shoot, did not develop side shoots from the axilla of the leaves. The symptom was inherited. The fasciculatum variety, when crossed with varieties which formed side shoots in abundance (longum, nigrum chinense, baccatum), did not fully produce determinated samples. The properties of fasciculatum are recessive and appear in Fo in a ratio of 3: 1. The bibliography lists 11

Card

Abs Jour : Ref Zhur - Biol., No 21, 1958, 94679

Author

Kormos, Jozsef; Kormos, Jozsefne

Inst Title

Experimental Data on the Morphogenesis of Some Phanerogams

Orig Pub

: Bot. kozl., 1956, 46, No 3-4, 207-217

Abstract

In F₂, from cross breeding red popper PB with a form of the same species with storile pistils, plants were obtained which formed absolutely no flowers. According to morphology they broke down into 3 types: 1) semibud specimens with short internodes, which did not give long shoots; 2) specimens which formed the beginning of a bud, and then developed from them some shoots with sufficiently long low internodes and short tips; 3) specimens that developed similarly with normal red pepper plants. Absence of flowers was not eliminated by known methods of flowering stimulation. Absence of flowers is conditioned by

Card 1/2

Card 2/2

- 29 -

KORMUS, JOZSEF.

HARRANG MEDIT TO BE RELEASE: POG/L14/2000 CIA-RDP86-00513R000824710007-

Abs Jour

: Ref Zhur - Biol., No 20, 1958, 91689

Author

Kormos, Jozsef, Kormos, Bozsefne.

Inst

: Szeged University.

Title

The Fleshy Pepper.

Orig Pub

Nevonytermeles, 1957, 6, No 1, 33-34.

Abstract

Some small sized pepper varieties have fleshy fruit like tomatoes. As hybridization experiments at the Szeged University in Hungary have shown, the characteristics of fleshy fructification dominate in succeeding generations: in F₂ segmentation takes place in the ratio of 3:1. By means of repeated reverse intercrossing fleshy fruit forms of pepper were successfully obtained. These varieties were not inferior to the dry ones. The average weight of the fruit on one of the hybrid forms was 145 g

Card 1/2

KORMOS, J.

"Fhylogenetic investigations of Suctoria." In German. p. 9.

ACTA BIOLOGICA. (Magyar Tudomanyos Akademia). Budapest, Hungary, Vol. 9, No. 1, 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

KORMOS, J.; KORMOS, K.

"Determination of the development of Suctoria. II. New investigations of the interrelated determination of larva formation and metamorphosis." In German. p. 25.

ACTA BIOLOGICA. (Magyar Tudomanyos Akademia). Budapest, Hungary, Vol. 9,

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncle.

KORMOS, J.

"Experimental investigation of gemmation gradient." In German, p. 105.

ACTA BIOLOGICA. (Magyar Tudomunyos Akademia) Budapest, Hungary, Vol 9, No. 2, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959. Uncl.

KORMOS, J.; KORMOS, K.

The genetic type of the carotenoid system of the paprika fruit. Acta bot Hung 6 no.3/4:305-319 '60. (EEAI 10:6)

1. Cytogenetisches Laboratorium, Szeged. (Red pepper)

KORMOS, Jozsef (Szeged, Aradi vertanuk tere 1., Ungarn); KORMOS, Katalin (Szeged, Aradi vertanuk terel., Ungarn)

Direct observation of the mutations of nuclei of the conjugation of Cyclophyra katharinae (Ciliata, Protozoa). Acta biol Hung 10 no.3/4: 373-394 (389-394 wanting) *60. (EEAI 9:12)

1. Cytogenetisches Laboratorium, Szeged (Vorstand: J.Kormos)
(CILIATA) (PROTOZOA) (CYCLOPHYRA)

KORMOS, Jozsef (Szeged, Aradi vertanuk tere 1., Ungarn); KORMOS, Katalin (Szeged, Aradi vertanuk tere 1., Ungarn)

Experimental investigation of the mutations of the nuclei of Cyclophyra katharinae (Ciliata, Protozoa). Acta biol Hung 10 no.3/4 395_419 (395_404 wanting) *60. (HEAI 9:12)

1. Cytogenetisches Laboratorium, Szeged (Vorstand: J.Kormos) (CILIATA) (PROTOZOA) (CYCLOPHYRA)

KORMOS, Jozsef

Some remarks about carotin pigments in paprika. Acta bot Hung 8 no.3/4:279-281 162

1. Cytogenetisches Laboratorium, Szeged.

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HUNGARY/Cultivated Plants. Potatoes. Vegetables. Melons

M-5

CIA-RDP86-00513R000824710007-Abs JouAPPROVED FOR RELEASE; 0681462000

Author : Kormus Jozef, Kormos Jozesia

: Vegetable Scientific-Research Institute at the Tigan In. Inst

stitute of Biology.

Title : Determined Peppers

Orig Pub: Novemytermeles, 1956, 5, No 1, 1-10

Abstract : Experiments have been conducted at the Vegetable Scientific Research Institute and in the Tigan Institute of Riology. By crossing in F2 the variant of fasciculatum with varieties related to other variants, a form with shortened offshoots of the main shoot which rapidly terminated their growth and lacked 31de shoots was obtained. This new determinated type of peppers, even after cutting off the top of the main shoot, did not develop side shoots from the axilla of the leaves. The symptom was inherited. The fasciculatum variety, when crossed with varieties which formed side shoots in abundance (longum, rigrum chinense, baccatum), did not fully produce determinated samples. The properties of fasciculatim are recessive and appear in F, in a ratio of 3: 1. The bibliography lists 11

Card : 1/1

enumics.

HUNCARY/General Biology - Genetics. Plant Genetics.

B.

Abs Jour : Ref Zhur - Biol., No 21, 1958, 94679

Author : Kormos, Jozsef; Kormos, Jozsefne

Inst:

Title : Experimental Data on the Morphogenesis of Some Phoneroguas

Orig Pub : Bot. kozl., 1956, 46, No 3-4, 207-217

Abstract

: In F₂, from cross breeding red pepper PB with a form of the same species with sterile pistils, plants were obtained which formed absolutely no flowers. According to norphology they broke down into 3 types: 1) semibud specimens with short internodes, which did not give long shoots; 2) specimens which formed the beginning of a bud, and then developed from them some shoots with sufficiently long low internodes and short tips; 3) specimens which developed similarly with normal red pepper plants. Absence of flowers was not eliminated by known methods of flowering stimulation. Absence of flowers is conditioned by

Card 1/2

Card 2/2

KORMOS, JOZSEFNE

HUNGARY/Cultivated Plants - Potatoes. Vegetables. Melons.

M-3

Abs Jour

: Ref Zhur - Biol., No 20, 1958, 91689

Author

: Kormos, Jozsef, Kormos, Bozsefne.

Inst

Szeged University.

Title

: The Fleshy Pepper.

Orig Pub

: Nevonytermeles, 1957, 6, No 1, 33-34.

Abstract

: Some small sized pepper varieties have fleshy fruit like tomatoes. As hybridization experiments at the Szeged University in Hungary have shown, the characteristics of fleshy fructification dominate in succeeding generations: in F2 segmentation takes place in the ratio of 3:1. By means of repeated reverse intercrossing fleshy fruit forms of pepper were successfully obtained. These varieties were not inferior to the dry ones. The average weight of the fruit on one of the hybrid forms was 145 g

Card 1/2

KORMOS, Jozsef; KORMOS, Jozsefne

The question of species in Capsicum genus. Biol tud kozl MTA
5 no.3-4:271-280 162.

1. Sejtgenetikai Laboratorium, Szeged.

KORMOS, K.; KORMOS, J.

New investigation on the sexual dimorphism of the Prediscophyra. In German. p. 109. (ACTA BICLOGICAL. Vol. 7, no. 1, 1956. Eudapest).

SO: Monthly List of East European Accessions (AEAL) LC, Vol. 6, no. 6, June 1957. Uncl.

: Kormos, J.; Kormos, Katalin

Author : Bungarian AS

Institut.

i Gell Division Types in Protogos. Title

8, No 2, PPROVED FOR RELEASE 5.06 A14 4 2000 ent CIA RDP86-00513R000824710007

Abstract

: The authors distinguish 3 types of cell division in protozoa: division, budding, and combined division in which division is combined with budding. Podophrya belong to a separate class, in which division is of the heteromorphic type, serving as a transition from homomorphic division of other Protozos to budding. Reorganization of the cytoplasm's cortical layer is characteristic of every type of division or budding. In division this reorganization includes the surface of the

1/3 Card:

> at the beginning of this paper belong in part to this type. Each type is subdivided into a number of morphologically different subtypes. The study of various types of division and

2/3 Jerd:

KORMOS, Katalin (Szeged, Aradi vertanuk tere 1, Ungarn)

Resting state of protozoa with metamorphosis. Acta biol Hung 11 (ERAI 10:4)

1. Zytogenetisches Laboratorium, Szeged (Vorstand: J.Kormos) (PROTOZOA)

KORMOS, J.; KORMOS, K.

The genetic type of the carotenoid system of the paprika fruit. Acta bot Hung 6 no.3/4:305-319 *60. (EEAI 10:6)

1. Cytogenetisches Laboratorium, Szeged. (Red pepper)

KORMOS, Jozsef (Szeged, Aradi vertanuk tere 1., Ungarn); KORMOS, Katalin (Szeged, Aradi vertanuk terel., Ungarn)

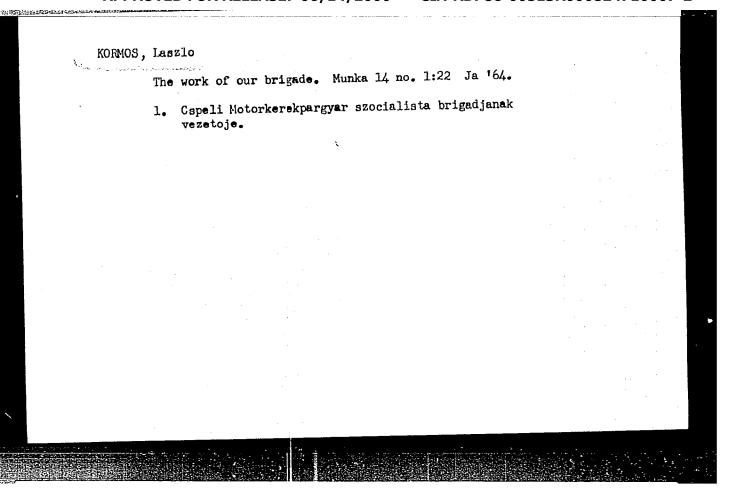
Direct observation of the mutations of nuclei of the conjugation of Cyclophyra katharinae (Ciliata, Protozoa). Acta biol Hung 10 no.3/4: 373-394 (389-394 wanting) *60. (EEAI 9:12)

1. Cytogenetisches Laboratorium, Szeged (Vorstand: J.Kormos)
(CILIATA) (PROTOZOA) (CYCLOPHYRA)

KORMOS, Jozsef (Szeged, Aradi vertanuk tere 1., Ungarn); KORMOS, Katalin (Szeged, Aradi vertanuk tere 1., Ungarn)

Experimental investigation of the mutations of the nuclei of Cyclophyra katharinae (Ciliata, Protozoa). Acta biol Hung 10 no.3/4 395-419 (395-404 wanting) *60. (EEAI 9:12)

1. Cytogenetisches Laboratorium, Szeged (Vorstand: J.Kormos) (CILIATA) (PROTOZOA) (CYCLOPHYRA)

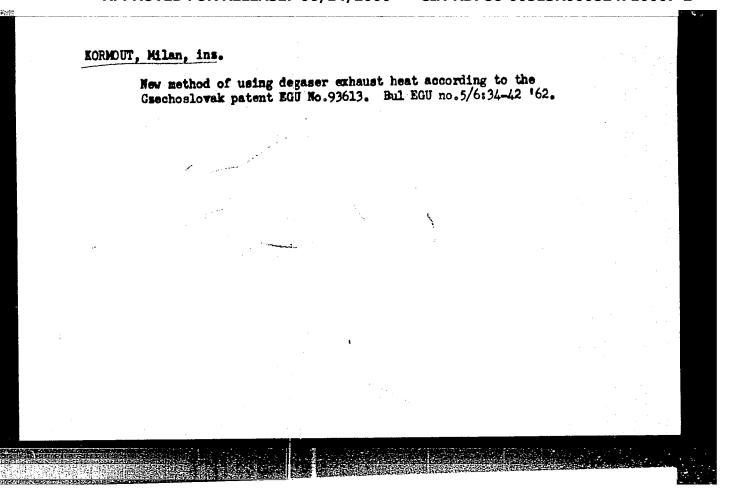


KORMOUT, M.; KOSEC, V.; VALENT, J.

"Drying of generators by the induction method."

p. 154 (Energetika, Vol. 8, no. 4, Apr. 1958, Praha, Czechoslovakia)

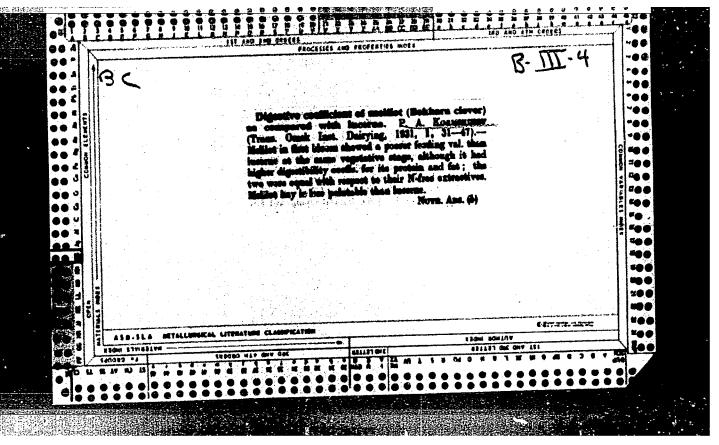
Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9, September 1958

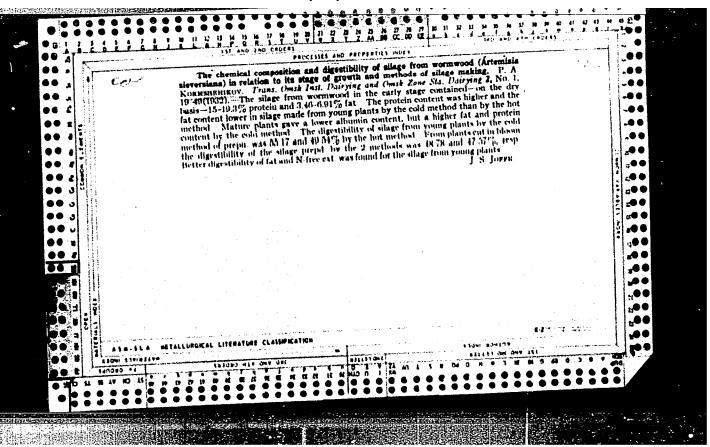


KISAROV, V.M.; Prinimali uchastiye: PLOTNIKOVA, Ye.I.; KORMOVA, Ye.M.

Solubility of chlorobenzene in water. Zhur.prikl.khim. 35
no.10:2347-2349 0 '62.

(Benzene) (Solubility)

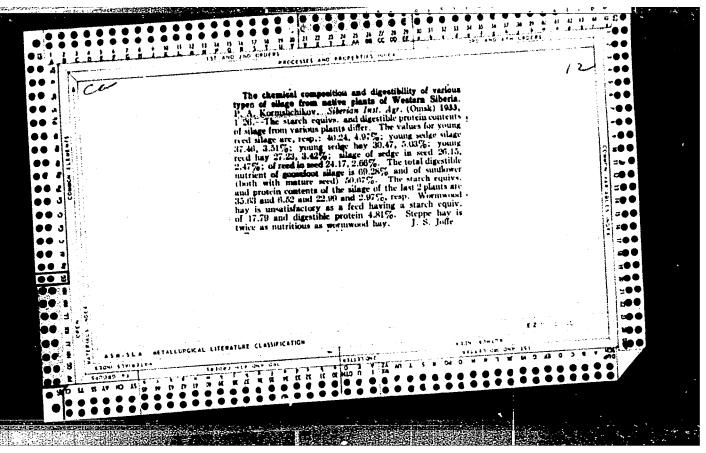




KORMSHCHIKOV, P. A., DENISOV, F. I., KOFYRIN, V. I. AND LARIN, I. V.

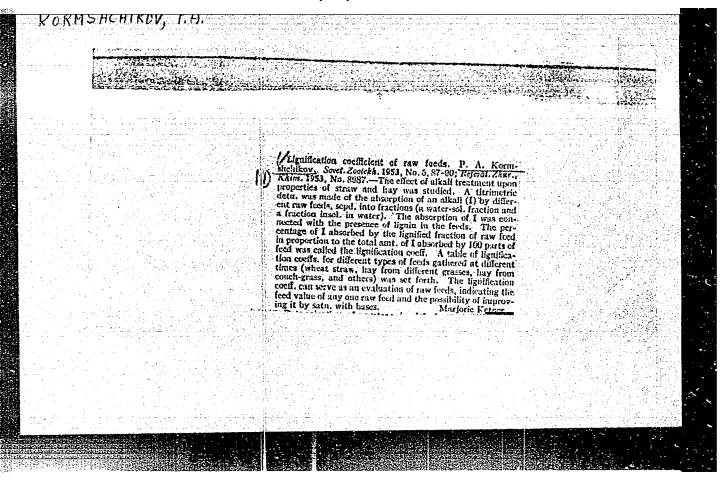
"Artemisia Sieversiana Silage and its Feeding Value," <u>Trans. Omsk Inst. Dairying and Omsk Zone. Stat. Dairying</u>, 1932, 2, 97-103, 117

The quality of this silage and its effect on the yield and quality of cows milk depend on the method of ensiling and the stage of maturity of the crop. The nutritive val. of 3 kg. of sunflower silage is equal to that of 1 kg. of average-quality pasture hay.



- 1. KORMSCHIKOV. P. A.
- 2. USSR (600)
- 4. Straw
- 7. Practical methods for adding calcium to straw to increase its mutritive quality. Korm. baza no. 12: D '52.

9. Monthly List of Bussian Accessions, Library of Congress, Feb. 1953. Unclassified.



Calcinated hay extract. Veterinariia 32 ne.1:49-51 Ja '55.

(MIRA 8:2)

1. Treitskiy veterinarnyy institut.

(HAY) (PREDING AND PREDING STUFFS)

KORINSHEMIKOV, YIM

USSR/Cultivated Plants - Fodder

M-6

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1620

Author : P.A. Kormshchikov, M.I. Zvereva

Inst : Not Given

Title : A New Concept of Plant Lignification

Orig Pub: Zhivotnovodstvo, 1956, No 11, 50-52

Abstract : Studies have been conducted on wheat, regneria and alfalfa in order to ascertain the degree of lignification in the various parts of plants depending on age. Methods of establishing the coefficient of lignification are presented, based on the fact that coarse feed is composed of two fractions, one soluble in water, and one unsoluble in water and in dilute acid solutions. Slight lignification originates prior to spiking in cereals, and budding in beans, but becomes stronger during their spiking and budding phases at the expense of the stems.

Card : 1/1

L 10317-67 EWP(k)/EWT(m)/EWP(e)/EWP(t)/ETI IJP(c) JD
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AUTHOR: Brynza, A. P.; Kormshchikova, N. A.

ORG: Dnepropetrovsk State University im. 300-years of the Reunion of the Ukraine with Russia (Dnepropetrovskiy gosudarstvennyy universitet)

TITLE: Protection of iron powder by treatment with solutions of azelates of heavy metals

SOURCE: Poroshkovaya metallurgiya, no. 8, 1966, 13-17

TOPIC TAGS: inon powder, iron corrosion, anticorrosive agent, anticorrosive additive, heavy metal azelate

ABSTRACT: The authors conducted an investigation on the protection of iron powder. against corrosion by a treatment with 0.5% solutions of lead, calcium, barium and zinc azelates, sodium benzoate, hexamethylenediamine, triethanolamine oleates, and laundry soap. The treated powders were tested in air at a relative humidity of 75%, a sulfur dioxide content of 0.01 and 0.1%, and at a temperature of 170. It was found that exclates. of heavy metals showed the best protective properties due chiefly to their waterrepelling effect. For example, iron powder treated with an azelate did not show any corrosion after 300 hr of exposure to sulfur dioxide, while iron powder saturated with laundry scap started to corrode after 100 hr. Orig. art. has: 4 figures and [TD]

SUB CODE: 11/ SUBM DATE: 26Jun65/ ORIG REF: 012/ OTH REF: 003

L 61079-65 ACCESSION NR: AP5018268 a powder alloyed with manganese are less hygroscopic than the corrosion proand and powder. The sorption isotherms and next of adsorption obtained moreate that at room temperature there area of the powders is between 3.2 and under investigation. The specific surface area of the powders is between 3.2 and 6.2 m²/g. Finally, powders hydrophobized by the method of A. I. Levin and A. V. Pomosov (DAN SSSR, 6, 1075, 1950) increase by 20-25% the value of the critical humidity during corrosion tests of these powders in the presence of 1 vol. % of SO2. Orig. art. has: 3 formulas, 7 figures, and 3 tables. ACHON: Dnepropetrovskiy gosudarstvennyy umiyo: sitet (Dnepropetrovsk State Clineranty) SUB CODE: MM ENCL: 00 - BULLTED: 22Jul64 OTHER: 004 NO REF SOV: 013 Card 2/2

BRYNZA, A.P.; KORMSHCHIKOVA, N.A.

Atmospheric corrosion of iron powders in the presence of sulfur dioxide. Porosh.met. 5 no.12:48-53 D *65.

(MIRA 19:1)

1. Dnepropetrovskiy gosudarstvennyy universitet imeni 300-letiya vossoyedineniya Ukrainy s Rossiyey. Submitted March 20, 1965.

KORMUNDA, B.

Purification of waste waters from ore-dressing shops. p. 513. TECHNICKA PRACA, Bratislava, Vol. 6, no. 9, Sept. 1954.

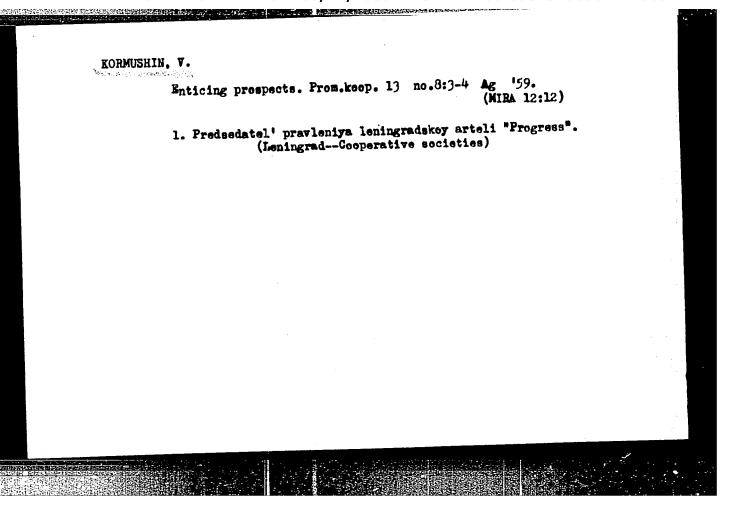
SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 5, No. 6, June 1956, Uncl.

KORMUSHIN, A.V.

Variable supports of the fuel pumps of 2D100 diesel engines.

Elekal teplating 7 no.1:18-19 Ja *63. (MIRA 16:2)

1. Starshiy insh. depo Krasnoufimsk Gor'kovskoy dorogi.
(Diesel locomotives—Equipment and supplies)



Antibiotic properties of hope and their application in brewing. Izv.vys.ucheb.zav.; pishch. tekh. no.6:96-99 '61. (MIRA 15:2) 1. Leningradskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra tekhnologii brodil'nykh proizvodstv. (Hops) (Brewing)

Antagonistic properties of brewer's yeast. Izv. vys. acheb. zav.; pishch. tekh. no.5:71-75 '61. (MIRA 15:1)

1. Leningradskiy tekhnologicheskiy institut pishchevoy promyshlennosti. Kafedra tekhnologii brodil'nykh proizvodstv.

(Yeast)

and the same of th	Antibiotic properties of hops. Antibiotiki 7 no.1:74-76 Ja '62. (MIRA 15:2)			
1. Leningradskiy tekhnologicheskiy institut pishchevoy promyshlennosti. (ANTIBIOTICS) (HOPS)				
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KORMUSHKIN, K.A.; ZAYOMCHKOVSKIY, A.D.; ALEKSEYENKO, V.I.;

EERKSHTEIN, M.Kh.; YABKO, Ia.M.; KIYAIEV, L.P.; YELPIDIN, W.F.;

KIRIIENKO, N.V.

Use of low-pressure polyethylene for the manufacture of sole

parts. Kosh. obuv. press. 5 no.7126-29 Jl *63.

(MIRA 1618)

(Boots and shoes, Rubber)

KORMUSHKINA, A.M.; MALKOV, A.M.

Studying the conditions increasing the activity of beer yeasts. Izv.vys.ucheb.zav.; pishch. tekh. no.3:101-103 '63. (MIRA 16 (MIRA 16:8)

1. Voronezhskiy tekhnologicheskiy institut, kafedra tekhnologii brodil'nykh proisvodstv.

(Yeast)

ALEKSEYEV, G.P.; ANDON'YEV, V.S.; ARNGOL'D, A.V.; BASKIN, S.M.; BASHMAKOV, N.A.; BEREZIN, V.D.; BERMAN, V.A.; BIYANOV, T.F.; GORBACHEV, V.N.; GRECHKO, I.A.; GRINBUKH, G.S.; GROMOV, M.F.; GUSEV, A.I.; DEMENT'YEV, N.S.; DMITRIYEV, V.P.; DUL'KIN, V.Ya.; ZVANSKIY, M. I.; ZENKEVICH, D.K.; IVANOV, B.V.; INYAKIN, A.Ya.; ISAYENKO, P.I.; KIPRIYANOV, I.A.; KITASHOV, I.S.; KOZHÉVNIKOV, N.N.; KORMYAGIN, B.V.; KROKHIN, S.A.; KUDOYAROV, L.I.; KUDRYAVISEV, G.N.; LARIN, S.G.; LEBEDEV, V.P.; LEVCHENKOV, P.N.; LEMZIKOV, A.K.; LIPGART, B.K.; LOPÁREV, A.T.; MALYGIN, G.F.; MILOVIDOVA, S.A.; MIRONOV, P.I.; MIKHAYLOV, B.V., kand. tekhn. nauk; MUSTAFIN, Kh.Sh., kand. tekhn. nauk; NAZIMOV, A.D.; NEFEDOV, D.Ye.; NIKIFOROV, I.V.; NIKULIN, I.A.; OKOROCHKOV, V.P.; PAVLENKO, I.M.; PODROBINNIK, G.M.; POLYAKOV, G.Ya.; PUTILIN, V.S.; RUDNIK, A.G.; RUMYANTSEV, Yu.S.; SAZONOV, N.N.; SAZONOV, N.F.; SAULIDI, I.P.; SDORNIKOV, D.V.; SEMENOV, N.A.; SKRIPCHINSKIY, I.I.; SOKOLOV, N.F.; STEPANOV, P.P.; TARAKANOV, V.S.; TREGUBOV, A.I.; TRIGER, N.L.; TROITSKIY, A.D.; FOKIN, F.F.; TSAREV, B.F.; TSETSULIN, N.A.; CHUBOV, V.Ye., kand. tekhn. nauk; EMGEL', F.F.; YUROVSKIY, Ya.G.; YAKUBOVSKIY, B.Ya., prof.; YASTREBOV, M.P.; KAMZIN, I.V., prof., glav. red.; MALYSHEV, N.A., zam. glav. red.; MEL'NIKOV, A.M., sam. glav. red.; RAZIN, N.V., sam. glav. red. i red. toma; VARPAKHOVICH, A.F., red.; PETROV, G.D., red.; SARKISOV, M.A., prof., red.; SARUKHANOV, G.L., red.; SEVAST'YANOV, V.I., red.; SMIRNOV, K.I., red.; GOTMAN, T.P., red.; BUL'DYAYEV, N.A., tekhn. red. (Continued on next card)

ALEKSEYEV, G.P.—(continued). Card 2.

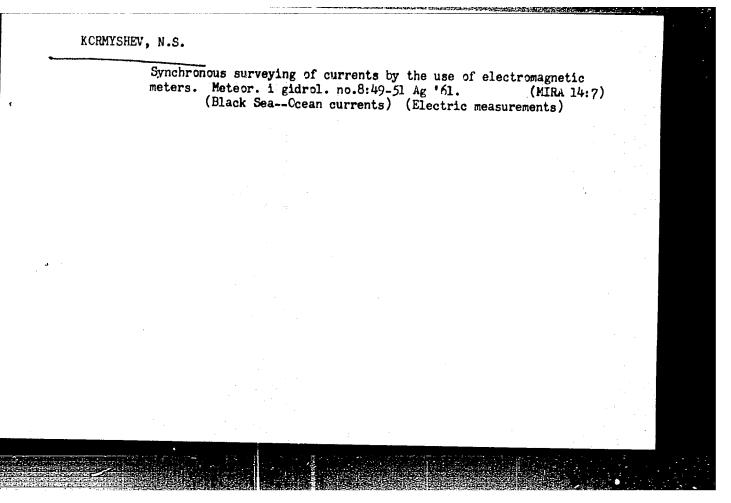
[Volga Hydroelectric Power Station; a technical report on the design and construction of the Volga Hydroelectric Power Station (Lenin), 1950-1958] Volshskaia gidroelektrostantsiia; tekhnicheskii otchet o proektirovanii i stroitel'stve Volshskoi GES imeni V.I.Lenina, 1950-1958 gg. V dvukh tomakh. Moskva, Gosenergoizdat. Vol.2.[Organization and execution of constrution and assembly work] Organizatsiia i proizvodstvo stroitel'nomontazhnykh rabot. Red. toma: N.V.Razin, A.V.Arngol'd, N.L. Triger. 1962. 591 p. (MIRA 16:2)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Razin). (Volga Hydroelectric Power Station (Lenin)—Design and construction)

KORMYAKOV, V. (Vladivostok); UST'YANTSEV, L. (Vladivostok)

Rebuilding of transistors. Radio no.5:41 My '63. (MIRA 16:5)

(Transistors—Maintenance and repair)



Utilization of Iwov-Volyn' Basin coals as fuel and source of chemicals. Khim i tekh. topl. i masel 9 no.3:41-44 Mr*64 (MIRA 17:7)

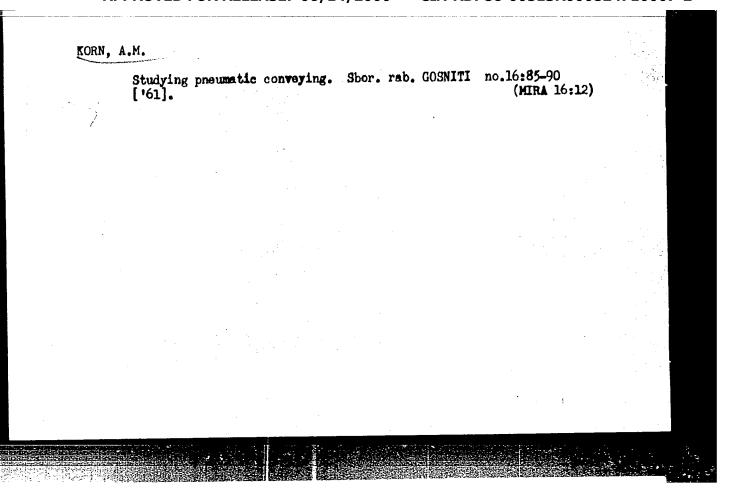
ZAVADSKIY, Yu.Ye., aspirant; KORMYSHEV, V.V., inzh.

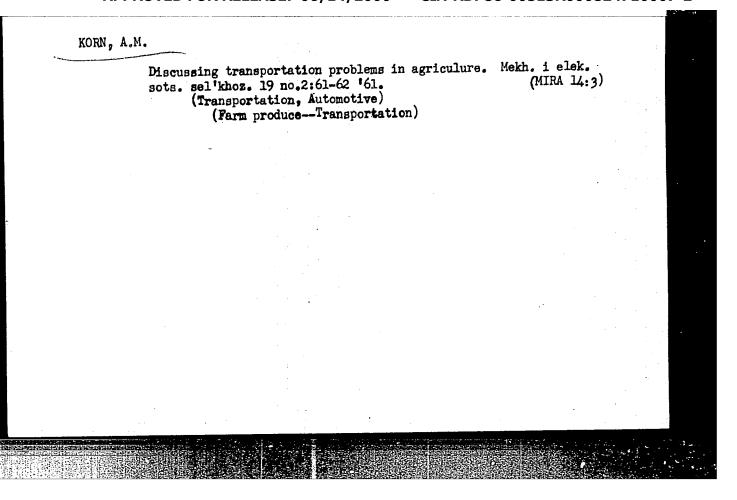
Calculating short circuit currents in semiconductor rectifier systems of the rolling stock of electric railroads. Vest. TSNII MPS 23 no.6:5-9 164.

(MIRA 17:10)

```
ZUYEV, V.; KORN, A.; IVANOV, V.
               Mechanization of loading and unloading operations in the
               transportation of agricultural products by V.A. Goberman,
L.A. Goberman. Reviewed by V. Zuev, A. Korn, V. Ivanov.
Avt.transp. 40 no.5:61 My 162. (MIRA 15:

(Farm produce—Transportation)
                                                                                                        (MIRA 15:5)
                              (Loading and unloading—Equipment and supplies)
(Goberman, V.A.) (Goberman, L.A.)
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KOLPAROVA, T.A.; GOLIYENBIYEVSKAYA, Z.I.; SHEVTSOVA, N.I.; RYBINA, M.I.; NIKITINA, N.N.; RYBAKOVA, L.F.; SHIPSHINA, N.D.; KORN, A.N.; KOROVKIN, B.F.; KOSYAKOV, K.S.; STEPNAYA, A.A.

Suggestions made at the September 29, 1963, conference of "Laboratornos delo" readers, members of the Leningrad Society of Physicians and Laboratorians. Lab. delo-10 no.4:256 '64. (MIRA 17:5)

1. Predsedatel pravleniya Leningradskogo obshchestva vrachey-laborantov (for Kolpakova). 2. Chleny pravleniya Leningradskogo obshchestva vrachey-laborantov (for all except Kolpakova).

KORE, GRANINO A.

611.61 .K81

Elektronnyye modeliruyushchiye ustroystva (na postoyannom toke) (Electronic analog computers (D. c analog computers) by) G. Korn I T. Korn. Perevod s angliyskogo B. Ya. Kogana. Moskva, Ize-vo Inostrannoy Literatury, 1955.

419 p. illus., diagrs.

American Ed. pub. in New York, 1952.

"Literatura": p. 411-416

HASSMANN, Wiktor, prof. dr. med.; KOEN, Halina; CIECHAN, Anatol

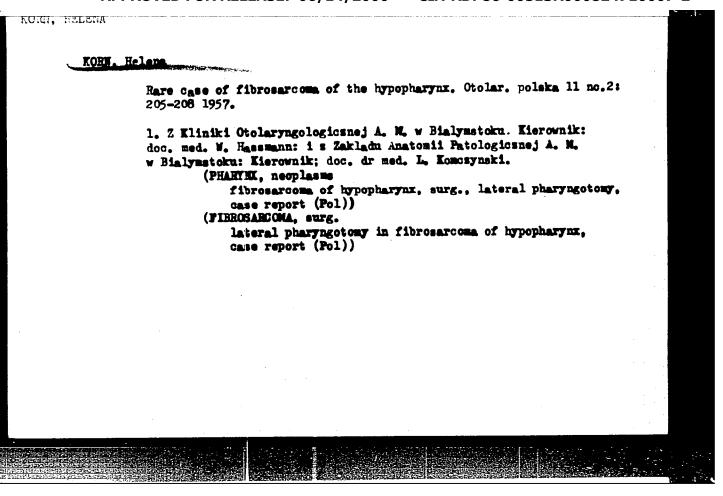
Remote results of the treatment of scleroma. Otolaryng. Pol. 19
no.2:169-173 '65.

1. Z Kliniki Otolaryngologicznej Akademii Medycznej w Bialystoku (Kierownik: prof. dr. med. W. Hassmann).

HASSMANN, Wiktor; KORN, Helena

Local therapy of otttis media with chloromycetin. Otolar.
polska 10 no.3-4:325-328 1956.

1. Z Kliniki Otolaryngologicznej A.M. w Bialymstoku Kierownik:
doc. med. W. Hassmann. Bialystok, Skorupska 12.
(CHLORAMFERNICOL, therapeutic use,
otitis media (Pol))
(OTITIS MEDIA, therapy,
chloramphenicol (Pol))

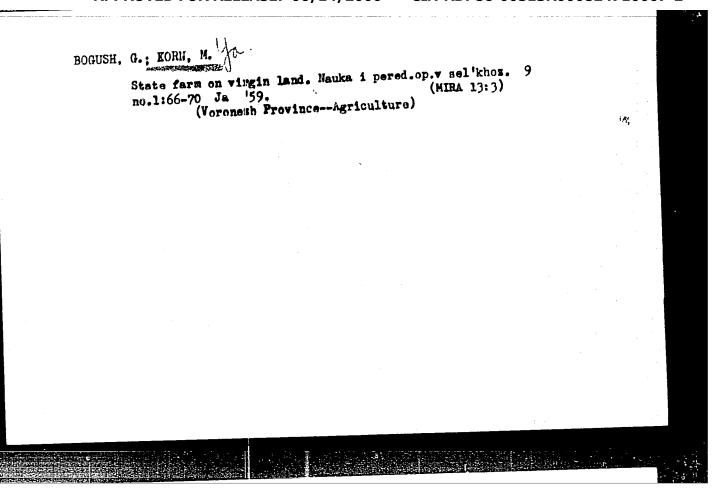


MARSHAN, Miktor; KORN, Helena; KROCHMALSKA, Emilia

Hearing and equilibrium disorders following cranial injuries. Otolaryng. Pol. 16 no.la:237-248 '62.

1. Z Kliniki Luryngologicznej AM w Bialymstoku Kierownik: doc. dr med. W. Hassmann.

(SKULL wds & inj) (DEAFNESS etiol) (EQUILIBRIUM)



KORN, M. Ya. -- "The Production of Tracer (Radioactive) Eacteria
for use in Immunological Investigations." Sub 17 Apr 52, Acad Med Sci
USSR. (Dissertation for the Degree of Candidate in Medical Sciences.)

So: Vechernaya Moskva January-December 1952

TROITSKIY, V.L., KORY, N. T. Comprehensive work on the structure of the bacterial cell ("Bacterial cytology" by M.A. Peshkov. Reviewed:by V.L. Troitskii and M. M. Korn). Vest. AN SSSR 27 no.9:151-155 S (MIRA(11:6) 157. 1. Chlen-korrespondent AFT SSSR (for Troitskiy). (Bacteria) (Peshkov, M.A.)

KORN, Miya., kamd.med.nauk; MUROMTSEV, S.N., prof.

Use of infrared spectroscopy in microbiology; survey of the literature.

(MIRA 14:4)

Vest. AMN SSSR 15 no.6:59-71 '60.

1. Institut epidemiologii i mikrobiologii imeni N.F.Gamalei AMN

SSSR. (SPECTRUM, INFRARED)

Worn, M.Ya.; SOLOV'YEV, IQ.N.

Use of phase contrast microscopy for observing spores in colored (MIRA 14:7) smears. Lab. delo 7 no.6:51-52 Je '61.

1. Laboratoriya elektronnoy i lyuminestsentnoy mikroskopii Instituta epidemiologii i mikrobiologii imeni N.F.Gamalei AMN SSSR. (STAINS AMD STAINING (MICROSCOFY))

(PHASE MICROSCOFE)

BUTSLOV, N.M.; KURN, M.Ya.; MUROMTSEV, S.N. [deceased]

Use of the image translator (brightness intensifier) in light and fluorescence microscopy. Dokl. AN SSSR 139 no.5:1225-1226 Ag. '61.

1. Institut epidemiologii i mikrobiologii im. N.F. (c. 10.7) AMM SSSR. Predstavleno akademikom V. F. Linnikom. (Photomicrography) (Image converters)

KORN, M.Ya.; SOLOV'YEV, M.N. Use of polarisation microscopy in the detection of formasan crystals in bacterial cells. Mikrobiologiia 31 no.3:540-541 (MIRA 15:12) My-Je 162. 1. Institut epidemiologii i mikrobiologii imeni N.F.Gamaleya (POLARIZING MICROSCOPE) (BACTERIOLOGY_TECHNIQUE) AMN SSSR. (FORMAZANS)

BLAGOVESHCHENSKIY, V.A.; KUL'BERG, A.Ya.; BULATOVA, T.I.; KORN, M.Ya.

Production of a specific fluorescent anthrax serum. Zhur.mikrobiol., (MIRA 15:4)
epid. i immun. 33 no.3:18-23 Mr '62. (MIRA 15:4)

1. Iz.Instituta epidemiologii i mikrobiologii imoni Gamalei AMN SSSR. (ANTHRAX) (SERUM) (ANTIGENS AND ANTIBODIES)

Detection of antibodies to Rickettsia prowazekiiby the luminescent-serological method. Zhur. mikrobiol., epid. i immum. 40 no.1:52-57'63. (MIRA 16:10)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

MAYOROVA, G.F.; KORN, M.Ya.

Study of the specificity of subjectussis fluorescent serum.

Zimr. mikrobiol., spid. i imeun. 40 no.9:42-48 S'63.

(MIRA 17:5)

1. Iz lastituta epidemiologii i mikrobiologii imeni Gamelei

AMN SSSI.

KORN, M.Ya.; MAYOROVA, G.F.

Some causes of staphylococcus staining with heterologous flourescent sera. Zhur. mikrobiol., epid. i immun. 40 no.ll:52-56 N *63. (MIRA 17:12)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSF.

VOLKOVA, Z.M.; VYGODCHIKOV, G.V.; KORN, M.Ya.; GIL'GUT, Ye.A.; SAMSONOVA, V.S.; SOLOV'YEV, N.N.

Toxinogenesis of Clostridium perfringens. Report No.1: Study of the morphology of Clostridium perfringens and the dynamics of toxin formation on semisynthetic nutritive media. Zhur. mikrobiol., epid. i immun. 41 no.12:43-48 D '64. (MIRA 18:3)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

L 25418-65

ACCESSION NR: AP5002159

5/0120/64/000/006/0120/0125

7 3_

AUTHOR: Butslov, M. M.; Korn, M. Ya.; Ol'bek, V. F.; Lukashenya, V. T.

TITLE: Microscope with an image-luminance amplifier for studying biological corrects

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1964, 120-125

TOPIC TAGS: microscope, luminance amplifier

ABSTRACT: An instrument is described for amplifying the luminance of an image in conventional, luminescent, or dark-field microphotography, and also in microand macro-filming of live biological objects. An electron-optical luminance amplifier is mounted over a table upon which a biological microscope is so positioned that the microscope image is projected from its eyepiece onto the microscope amplification, the new image on the amplifier commescent screen can be observed or photographed. The potentialities, required exposure, enlargement, and resolution of the instrument are briefly discussed. Photos of moving amoebae are presented. It is claimed that the

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L 25h18-65 ACCESSION NR: AP5002159

instrument permits cutting down the exposure time in microphotography work by 2-3 orders and also permits the microfilming of low-luminance objects. Thanks to the considerably-reduced illumination of biological preparations being photographed, it is expected that the live organisms involved will be less injured by light. "The authors wish to thank Ye. M. Brumberg and M. N. Meysel for their valuable discussion of the results. The great attention to this project and organizational help of the late S. N. Muromtsev are noted. Ye. V. Ksandrov, A. M. Kudryavtsev (Moscow Studio of Scientific and Popular Films), and N. N. Solov'yev (IEM AMN SSSR) took part in assembling the instrument." Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 25Nov63

NO REF SOV: 009

ENCL: 00

SUB CODE: OP, LS

OTHER: 000

Card 2/2

L 40745-65 ENT(1)/ENA(1)/ENA(6) 2 JK UR/0016/64/000/012/0043/0048 ACCESSION NR: AP5012392 AUTHOR: Volkova, Z. M.; Vygodchikov, G. V.; Korn, M. Ya.; Gil'gut, Te. A.; Samsonova, V. S.; Solov'yer, N. H. TITLE: Toxinogenesis of CL. perfringens, I. A study of the morphology of Cl. perfringens and the dynamics of torin formation on semisynthetic culture media SOURCE: Zurnal mikrabiologii, epidemiologii i immunobiologii, no. 12, 1964, 43-48, and insert facing p. 44 TOPIC TAGS: toxicology, bacteria, bacteriology, morphology ABSTRACT: The authors compared live and fixed Cl. perfringens cells under various conditions of fluorochronation and thus determined the optimum staining conditions. They found that chromatin elements and cytoplasmatic RNA could be detected in Cl. perfringens cells after fluorochromation with acridine orange; the differences between the live and fixed cells with respect to the morphology of the cromatin elements were noted. Changes were noted in the morphology of the bacterial cells during different periods of growth. Toxin accumulated at the trae of greatest multiplication of the culture and continued throughout the logerithmic growth phase. Card 1/2

40745-65 CESSION NR: AP5012392		4 to-se of 01	
	ta tentatively reveals that culture medium is related		
ion of the microbial cell	is ryrther soudy so moon	production. This	
k is the first effort to	link ine cycological back	ct fon	
It was found that	e ci verfringens cells du	ring continuous	
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outh and inhibited the pro	oduction of toxin. Orig. a	rt. has 2 figures	
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DANILOVA, T.A.; KORN, M.Ya.

Possibility of elimination of cross reactions between streptococci of various groups and staphylococci in using the fluorescent antibodies method. Zhur. mikrobiol., epid. i immun. 41 no.11:13-15 (MIRA 18:5)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

BALAYEVA, N.M.; LEVINA, Ye.N.; KORN, N.Ya.

Fluorescent antibodias for the detection of Rickettsia; a review of literature. Zhur.mikrobiol., epid. i immun. 42 no.3:17-21 (MIRA 18:6) Mr 165.

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

Light-65 Edt(1)/Eda(j)/Eda(b)-2

ACCESSION NR: AF5008012

AUTHOR: Balayeva, N. M.; Levina, Ye. N.; Korn, N. Ya.

TITLE: Detection of rickettsia by fluorescent antibodies

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii,
no. 3, 1965, 17-21

TOPIC TAGS: rickettsia, rickettsiology, fluorescent antibody,
epidemiology, parasite, vector, serum, serum protein, serum
complement, antigen

ABSTRACT: In 1950 A. H. Cooms and his coverkers demonstrated for the
first time the possibilities of a direct fluorescent-serological
method for detection of rickettsia. Literature studies appearing
mince then have shown that this method is highly specific and
since then have shown that this method is highly specific and
sensitive for rickettsia detection in vectors and for rickettsia
identification. Indirect method of luminescent-serological
identification. Indirect method of luminescent-serological
analysis were developed by imbeler, Cooms, Goldwasser, and Shepard
for detection of antibodies in the blood during rickettsial
infections, particularly typhus. In the indirect method the

Card 1/2

L 42437-65 ACCESSION NR: AP5008012 rickettsial cell fixed on a slide has the capacity to sorb serum proteins not only on the basis of an antigen-antibody relationship had also on the basis of physicochemical interactions. The effect The day been reduced significantly by the followings exwith a physiological solution (pH 7.2-2.2) the notation and use of antispecific serums. Titers or anticodies in serums determined by this method are dependent on the accepting of the antispecific serums and fluctuate within the range of Tivers established during complement fixing. Literature texa . Les recection of apecific rickettsia (4, surnet, Provachik, o castala). Orig. art. has: None. ASSOCIATION: Institut epidemiologii i mikrobiologii im. Gamalei (Institute of Epidemiology and Microbiology AMN SSER) ENCL: 00 SUB CODE: LS NR REF SOV: 015 OTHER: 014 Card 2/2

KORN, M.Ya.

Utilization of fluorescence microscopy for the intravitam study of the process of intracellular digestion of phagocytized bacteria. Izv. AN SSSR. Ser. biol. no.6:913-916 N-D '65. (MIRA 18:11)

1. Institut epidemiologii i mikrobiologii im. N.F. Gamalei AMN SSSR.

CHERNUKHA, Y.G.; KORN, M.Y.

Results of use of the fluorescence technique in study of Leptospirae. J. hyg. epidem. (Praha) 9 no.2:240-246 '65.

1. Camaleya Institute of Epidemiology and Microbiology, Academy of Medical Sciences of the U.S.S.R, Moscow.

Effect of tetrazolium salts on the remoduction of bacteria.

Mikrobiologiia 34 nc.3:469-472 My-Je *65.

(NIRA 13:11)

1. Institut epidemiologii i mikrobiologii imeni N.F.Cemalei
AMN SSSR.

ACC NR: AP7001957

SOURCE CODE: UR/0120/66/000/006/0167/0168

AUTHOR: Butslov, M. M.; Korn, M. Ya.; Solov'yev, N. N.; Yaramyshev, G. S.

ORG: Institute of Epidemiology and Microbiology, AMN SSSR (Institut epidemiologii i mikrobiologii AMN SSSR)

TITLE: Outfit for color microphotograph by means of an electron-optical imagebrightness intensifier

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1966, 167-168

TOPIC TAGS: microphotography, image intensifier

ABSTRACT: An outfit is briefly outlined which consists of a Soviet-made ML-2 luminescent microscope, an electron-optical light intensifier, and a "Konvas" movie camera; the outfit is intended for studying biological objects. By means of sequential alternate-frame dichroic filtering, the color microphotographing (stills and moving) of biological objects from the intensifier screen is performed. The light filters are changed in synchronism with the frames. The outfit permitted cutting down the exposure time by 2--3 orders of magnitude and permitted centraffer microfilming of live objects on black-and-white films. Orig. art. has: 3 figures.

SUB CODE: 09, 14 / SUBM DATE: 15Mar66 / ORIG REF: 003

Card 1/1

UDC: 778.142:778.6:578.08

NIKOLAYEV, D.S.; LAZAREV, K.F.; KORN, O.P.; YAKUNIN, M.I.; DROZHZHIN, V.M.; SAMARTSEVA, A.G.

Isotopic composition of uranium in the waters and ediments of the Black and Azor Seas, Dokl. AN SSSR 165 no.1:187-89 N *65.

(MIRA 18:10)

1. Submitted April 10, 1965.

81418

S/020/60/132/06/52/068 B011/B126

21.3000 AUTHORS:

Hikolayev, D. S., Korn, Q. P., Lazarev, K. F., Kolyadin, L. B., Kuznetsov, Yu. V., Grashchenko, S. M.

TITLE:

The Concentration of Uranium in the Waters of the

Black Sea

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 6,

pp. 1411 - 1412

TEXT: It follows from an introductory survey publication that a fairly equal distribution is to be found in the oceans, an average of $2.7 \cdot 10^{-6}$ g/l. Strong deviations from this concentration can occur in coastal waters and inland seas. The Black Sea has a special position among those that are related to the ocean. The exchange of water with the ocean is limited, mineralization is diminished, and the water is contaminated with H_2S up to the upper 125-175 m. It is to be assumed that under these conditions, hexavalent uranium is reduced to a state of pertayalency. This should lead to active uranium sedimentation and

Card 1/3

81418

The Concentration of Uranium in the Waters of the Black Sea

S/020/60/132/06/52/068 B011/E126

a change in concentration in the depths. Table 1 correlates data from 1951 and 1958 (central and western parts of the Sea). Uranium was determined by a luminescence method from 0.3-1 samples with an accuracy of +20%. The authors draw the following conclusions from Table 1: 1) the uranium concentration fluctuates in the samples examined between $1.5 \cdot 10^{-6}$ and $2.8 \cdot 10^{-6}$ g/1. 2) These variations occur on the surface as well as in the depths. No regularity in these concentration changes could be detected. Thus the specific reductive milieu of the Black Sea from 125-175 m upwards remains without influence on the distribution of the uranium concentration. According to approximate calculations, the average concentration of uranium in the part of the Black Sea examined is $2.0 \pm 0.3 \cdot 10^{-6}$ g/1, which approaches the average value in the ocean. The decline in concentration in the Black Sea does not exceed 30-35%, while the mineralization is lowered by 54% in comparison to the ocean. The authors thank I. Ye. Starik, Corresponding Member AS USSR, in whose laboratory the work was carried out. There are table and 16 references: 2 Soviet, 7 American, 1 Swedish, 1 Japanese, and 3 Austrian.

Card 2/3

81418

The Concentration of Uranium in the Waters

\$/020/60/132/06/52/068 B011/B126

of the Black Sea

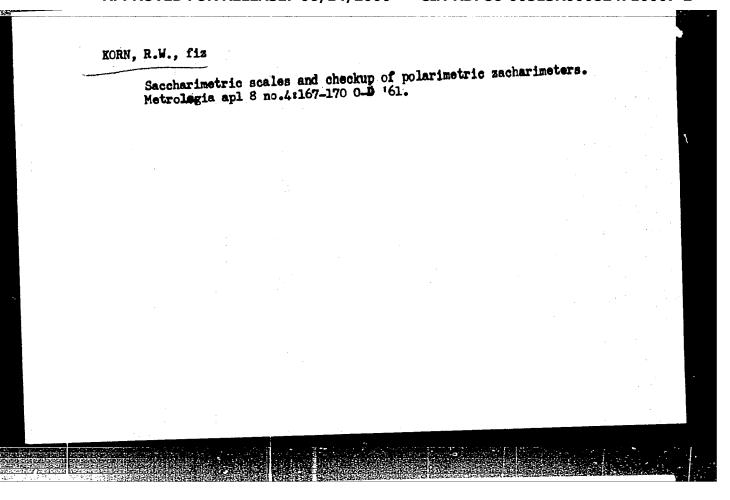
PRESENTED:

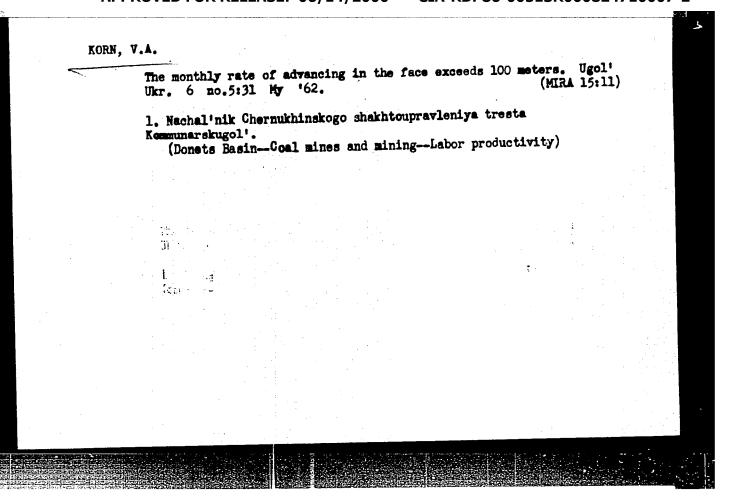
February 16, 1960, by N. M. Strakhov, Academician

SUBMITTED:

August 22, 1959

Card 3/3





AUTHOR:

Kornachev, L.V.

113-58-7-19/25

TITLE:

Fuel Injection in the Intake Piping of a Compression Ignition Engine (Vprysk topliva vo vsasyvayushchiy truboprovod dvigatelya s vosplameneniyem ot szhatiya)

PERIODICAL:

Avtomobil'naya promyshlennost', 1958, Nr 7, pp 37-38 (USSR)

ABSTRACT:

The article describes a fuel injection method for diesel trucks, where 20 % of the fuel is injected in an atomized state into the intake piping, while the remaining fuel is fed the ordinary way through the sprayer into the cylinder as described in an article from the American journal "Gas and Oil Power", Vol. 52, Nr 633. There is 1 diagram and 3 graphs.

1. Fuel injection-Applications 2. Diesel engines-Fuel injection

Card 1/1

12(2)

507/113-59-4-17/19

AUTHOR:

Kornachev, L.V.

TITLE:

An Investigation of the Microstructure of a Fuel Spray Cone

PERIODICAL: Avtomobil'naya promyshlennost', 1959, Nr 4, pp 45-46 (USSR)

ABSTRACT:

The investigation of the fuel spray cone in compression ignition engines is of importance when studying the fuel-air mixture formation. The author cites two methods. One is based on trapping the drops of the fuel spray on a plate covered with soot, while the other method consists of high-speed microphotography. The author mentions briefly the different existing methods for the microphotography of fuel spray cones. He then reviews the equipment use for this purpose, mentioning the apparatus of the Laboratoriya fiziki goreniya ENIN AN SSSR (Laboratory of Combustion Physics ENIN AS USSR) and devices developed for this purpose in the USA and Germany. There are 2 photographs, 1 diagram and 5 references, 2 of which are Soviet.

Card 1/1

S/020/62/146/003/014/019 B101/B144

AUTHORS:

Burshteyn, R. Kh., Kornacheva, G. M., Shurmovskaya, N. A.

TITLE:

Study of iron corrosion by gases, using the contact potential

difference method

PERIODICAL:

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TEXT: The corrosion of iron by oxygen and the effect of water vapor and elevated temperature on this process were studied. Oxygen adsorption was measured on iron powder degassed at 10^{-6} mm Hg and 500^{9} C. log $1/\tau$ was measured, where τ is the time used to adsorb half the oxygen. Two stages were observed, a rapid one ending with the adsorption of $2\cdot10^{15}$ O₂ molecules per cm² which corresponds to an Fe₂O₃ layer of 6 Å thickness followed by a slow stage. When the iron covered with the maximum oxide film is again evacuated and is brought into contact with water vapor ($p_{\rm H_2O}$ ~16-17 mm Hg),

the iron becomes capable of adsorbing more oxygen. This activation of iron by water vapor can be repeated many times so that thick oxide layers are formed. The same activation of iron for oxygen adsorption can be Card 1/3

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achieved by heating it to 200°C. The contact potential difference was measured using a molybdenum reference electrode fused into glass on Hilger iron reduced in hydrogen at 400°C and degassed at 10-6 mm Hg and 700°C. Between 20 and 300°C, the electron work function was lower for iron covered with 2.10¹⁵ O₂ molecules per cm² than for pure iron.

Chemisorption of 0_2 reduced the work function by 0.2-0.25 v. After the action of water vapor the work function showed an additional drop of 0.30 v. Maximum reduction of the work function was observed at 100°C and amounted to 0.57 v. After removal of the water vapor and renewed contact with 02, the work function increased again to the value measured before treatment with water vapor. The same effect was achieved by heating to 300°C. This activation of iron by water vapor or heating is explained by penetration of metal atoms into the oxide film surface and by the formation of an electric double layer with outwardly directed positive charge. There are 4 figures. The most important English-language reference is: J. S. Anderson, D. F. Klemperer, Proc. Roy. Soc., 258, 350 (1960).

ASSOCIATION: Institut elektrokhimii Akademii nauk SSSR (Institute of Electrochemistry of the Academy of Sciences USSR)

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